Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application: (Currently amended) An electron tube, comprising: 1. an electrically insulating wall portion; a multistage depressed collector (MSDC) including: a first electrode adapted to collect electrons of a first energy level, the first an electrode formed on an inside portion of said insulating wall portion, the electrode and comprising a metallization layer formed on said inside portion of said insulating wall portion; a second electrode adapted to collect electrons of a second energy level; and an insulating portion for electrically isolating said first and second electrodes from one another; and an electrical path coupling said first electrode to a terminal on an exterior of the tube. (Currently amended) An electron tube, comprising: 2. an electrically insulating wall portion; a multistage depressed collector (MSDC) including: a first electrode adapted to collect electrons of a first energy level, the first an electrode formed on an inside portion of said insulating wall portion, the electrode and

comprising a metallization layer formed on said inside portion of said insulating wall

portion and a cylindrical copper member including a plurality of circularly disposed
fingers and slots, said fingers affixed at a distal end thereof to said metallization layer;
a second electrode adapted to collect electrons of a second energy level; and
an insulating portion for electrically isolating said first and second electrodes from
one another; and
an electrical path coupling said <u>first</u> electrode to a terminal on an exterior of the tube.

- 3. (Original) An electron tube in accordance with claim 1, wherein said electrically insulating wall portion comprises a ceramic material.
- 4. (Original) An electron tube in accordance with claim 2, wherein said electrically insulating wall portion comprises a ceramic material.
- 5. (Original) An electron tube in accordance with claim 3 wherein said tube further comprises a fluid cooling apparatus in thermal contact with an exterior of said tube.
- 6. (Original) An electron tube in accordance with claim 4 wherein said tube further comprises a fluid cooling apparatus in thermal contact with an exterior of said tube.
- 7. (Original) An electron tube in accordance with claim 5 wherein said ceramic comprises a material selected from the group consisting of: aluminum oxide, beryllium oxide and aluminum nitride.

- 8. (Original) An electron tube in accordance with claim 6 wherein said tube further comprises a fluid cooling apparatus in thermal contact with an exterior of said tube.
- 9. (Currently amended) An electron tube, comprising:

a linear beam electron tube, comprising:

vacuum envelope means for maintaining a vacuum in the tube, said vacuum envelope means including an electrically insulating wall portion;

<u>first</u> means for conducting electricity disposed on an inside of said insulating wall portion, said first means collecting electrons of a first energy level;

second means for conducting electricity and for collecting electrons of a second energy

level;

insulating means for electrically isolating the first and second means for conducting electricity; and

terminal means disposed on an outside of said insulating wall portion and electrically coupled to said means for conducting electricity.

- 10. (Currently amended) The electron tube of claim 9, wherein said <u>first</u> means for conducting electricity comprises a layer of metallization.
- 11. (Currently amended) The electron tube of claim 9, wherein said <u>first</u> means for conducting electricity comprises a cylindrical copper member having a plurality of circularly disposed fingers and slots.

- 12. (Original) The electron tube of claim 11, wherein distal ends of said fingers are brazed to said insulating wall portion.
- 13. (Currently amended) The electron tube of claim 10, wherein said <u>first_means</u> for conducting electricity comprises a cylindrical copper member having a plurality of circularly disposed fingers and slots and wherein distal ends of said fingers are brazed to said layer of metallization.
- 14. (Original) The apparatus of claim 12, wherein said vacuum envelope means comprises a ceramic material.
- 15. (Original) The apparatus of claim 13, wherein said vacuum envelope means comprises a ceramic material.